

## Extruded polystyrene TECHNOMICOL CARBON SOLID 500

EN 13164

### Descriptions of material:

The TECHNOMICOL CARBON SOLID extruded foamed polystyrene is a thermal insulation material with uniformly distributed closed cells, which does not absorb water, does not swell and shrink, is chemical-resistant and is not subject to digestion.

High resistibility allows to receive equal and simultaneously rigid base, and it essentially increases term of operation

Of the whole heat-insulating system. TECHNOMICOL CARBON SOLID contains nano particles graphite that reflect heat radiation/



### Field of application:

TECHNOMICOL CARBON SOLID –is an up-to-date thermal insulating material widely used in building and construction while arranging thermal protection of the basement, roofs, floors, facades, thermal insulation of railways and highways.

### Physicomechanical characteristics:

TECHNONCIOL XPS	CARBON SOLID 500
Density, kg/m <sup>3</sup>	38,0-45,0
Compressive stress at 10 percent linear deformation, no less than (kPa)	500
Thermal conductivity, $\lambda_D$ , W/(m*K)	0,028-0,034
Maximum strength for static bending, no less than, (MPa)	0,40-0,7
Water absorption, no more than (% of volume)	0,2
Reaction to fire, Euroclass	E
Temperature range for normal operation, °C	from -75 to +75

### The geometric parameters:

length	mm	1180-4500 (< 3000 mm ±10; ≥ 3000 mm ±15)
width	mm	580 (±8 mm)
thickness	mm	50 (±2 mm)